

Claims

[c1] 1.A method of labeling orthogonal images, the method comprising:
identifying a primary image taken in a first plane;
identifying a plurality of secondary images taken in planes orthogonal to the first plane;
associating a label to a point in the primary image;
calculating a distance from the point to a line of intersection between the primary image and each secondary image in the plurality of images; and
associating the label to a secondary image in the plurality of secondary images having a line of intersection with the primary image closest to the point.

[c2] 2.The method of claim 1, wherein the calculating is performed using the equation:
$$\frac{ax_0 + by_0 + c}{\sqrt{a^2 + b^2}}$$
where $ax_0 + by_0 + c$ is the line of intersection, and
(x_0, y_0) is the point.

[c3] 3.The method of claim 1, further comprising:
identifying a second plurality of secondary images taken in planes orthogonal to the first plane;
calculating a distance from the point to a line of intersection between the primary image and each secondary image in the second plurality of images; and
associating the label to a secondary image in the second plurality of secondary images having a line of intersection with the primary image closest to the point.

[c4] 4.The method of claim 1, further comprising:
associating the label to a second point in the primary image;
calculating a distance from the second point to a line of intersection between the primary image and each secondary image in the plurality of images; and
associating the label to a secondary image in the plurality of secondary images having a line of intersection with the primary image closest to the second point.

[c5] 5.A method of labeling orthogonal images, the method comprising:
identifying a primary image taken in a first plane;

identifying a plurality of secondary images taken in planes orthogonal to the first plane;

associating a first label to a point in the primary image;

calculating a distance from the point to a line of intersection between the primary image and each secondary image in the plurality of images; and

associating a second label to a secondary image in the plurality of secondary images having a line of intersection with the primary image closest to the point.

[c6] 6.The method of claim 5, wherein the calculating is performed using the equation:

$$\frac{ax_0 + by_0 + c}{\sqrt{a^2 + b^2}}$$

where $ax_0 + by_0 + c$ is the line of intersection, and
 (x_0, y_0) is the point.

[c7] 7.The method of claim 5, further comprising:

identifying a second plurality of secondary images taken in planes orthogonal to the first plane;

calculating a distance from the point to a line of intersection between the primary image and each secondary image in the second plurality of images; and

associating the second label to a secondary image in the second plurality of secondary images having a line of intersection with the primary image closest to the point.

[c8] 8.The method of claim 5, further comprising:

associating the first label to a second point in the primary image;

calculating a distance from the second point to a line of intersection between the primary image and each secondary image in the plurality of images; and

associating the second label to a secondary image in the plurality of secondary images having a line of intersection with the primary image closest to the second point.

[c9] 9.The method of claim 5, further comprising:

copying text associated with the first label to the second label.

[c10] 10.The method of claim 5, further comprising:

deleting the second label upon deletion of the first label.

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[c11] 11. A storage medium encoded with machine-readable computer program code for labeling orthogonal images, the storage medium including instructions for causing a computer to implement a method comprising:

- identifying a primary image taken in a first plane;
- identifying a plurality of secondary images taken in planes orthogonal to the first plane;
- associating a label to a point in the primary image;
- calculating a distance from the point to a line of intersection between the primary image and each secondary image in the plurality of images; and
- associating the label to a secondary image in the plurality of secondary images having a line of intersection with the primary image closest to the point.

[c12] 12. The storage medium of claim 11, wherein the calculating is performed using the equation:

$$\frac{ax_0 + by_0 + c}{\sqrt{a^2 + b^2}}$$

where $ax_0 + by_0 + c$ is the line of intersection, and (x_0, y_0) is the point.

[c13] 13. The storage medium of claim 11, wherein the method further comprises:

- identifying a second plurality of secondary images taken in planes orthogonal to the first plane;
- calculating a distance from the point to a line of intersection between the primary image and each secondary image in the second plurality of images; and
- associating the label to a secondary image in the second plurality of secondary images having a line of intersection with the primary image closest to the point.

[c14] 14. The storage medium of claim 11, wherein the method further comprises:

- associating the label to a second point in the primary image;
- calculating a distance from the second point to a line of intersection between the primary image and each secondary image in the plurality of images; and
- associating the label to a secondary image in the plurality of secondary images having a line of intersection with the primary image closest to the second point.

[c15] 15. A storage medium encoded with machine-readable computer program code for labeling orthogonal images, the storage medium including instructions for causing a computer to implement a method comprising:

- identifying a primary image taken in a first plane;
- identifying a plurality of secondary images taken in planes orthogonal to the first plane;
- associating a first label to a point in the primary image;
- calculating a distance from the point to a line of intersection between the primary image and each secondary image in the plurality of images; and
- associating a second label to a secondary image in the plurality of secondary images having a line of intersection with the primary image closest to the point.

[c16] 16. The storage medium of claim 15, wherein the calculating is performed using the equation:

$$\frac{ax_0 + by_0 + c}{\sqrt{a^2 + b^2}}$$

where $ax_0 + by_0 + c$ is the line of intersection, and (x_0, y_0) is the point.

[c17] 17. The storage medium of claim 15, wherein the method further comprises:

- identifying a second plurality of secondary images taken in planes orthogonal to the first plane;
- calculating a distance from the point to a line of intersection between the primary image and each secondary image in the second plurality of images; and
- associating the second label to a secondary image in the second plurality of secondary images having a line of intersection with the primary image closest to the point.

[c18] 18. The storage medium of claim 15, wherein the method further comprises:

- associating the first label to a second point in the primary image;
- calculating a distance from the second point to a line of intersection between the primary image and each secondary image in the plurality of images; and
- associating the second label to a secondary image in the plurality of secondary images having a line of intersection with the primary image closest to the second point.

[c19] 19. The storage medium of claim 15, wherein the method further comprises:
copying text associated with the first label to the second label.

[c20] 20. The storage medium of claim 15, wherein the method further comprises:
deleting the second label upon deletion of the first label.

[c21] 21. A system for acquiring images of a target body, the system comprising:
an imaging device configured to provide a primary image and a plurality of
secondary images of the target body, the primary image being taken at a first
plane through the target body and the secondary images being taken at second
planes through the target body;
a computer configured to receive the primary and secondary images from the
imaging device, the computer further configured to:
associate a label to a point in the primary image;
calculate a distance from the point to a line of intersection between the primary
image and each secondary image in the plurality of images; and
associate the label to a secondary image in the plurality of secondary images
having a line of intersection with the primary image closest to the point.

[c22] 22. The system of claim 21, wherein the computer calculates the distance using
the equation:

$$\frac{ax_0 + by_0 + c}{\sqrt{a^2 + b^2}}$$

where $ax_0 + by_0 + c$ is the line of intersection, and
 (x_0, y_0) is the point.

[c23] 23. The system of claim 21, wherein the imaging device is further configured to
provide a second plurality of secondary images taken in planes orthogonal to
the first plane; and
wherein the computer is further configured to:
calculate a distance from the point to a line of intersection between the primary
image and each secondary image in the second plurality of images, and
associate the label to a secondary image in the second plurality of secondary
images having a line of intersection with the primary image closest to the point.

[c24] 24. The method of claim 21, wherein the computer is further configured to:

associate the label to a second point in the primary image; calculate a distance from the second point to a line of intersection between the primary image and each secondary image in the plurality of images; and associate the label to a secondary image in the plurality of secondary images having a line of intersection with the primary image closest to the second point.

[c25] 25.A system for acquiring images of a target body, the system comprising:
an imaging device configured to provide a primary image and a plurality of secondary images of the target body, the primary image being taken at a first plane through the target body and the secondary images being taken at second planes through the target body;
a computer configured to receive the primary and secondary images from the imaging device, the computer further configured to:
associate a first label to a point in the primary image;
calculate a distance from the point to a line of intersection between the primary image and each secondary image in the plurality of images; and
associate a second label to a secondary image in the plurality of secondary images having a line of intersection with the primary image closest to the point.

[c26] 26.The system of claim 25, wherein the computer calculates the distance using the equation:
$$\frac{ax_0 + by_0 + c}{\sqrt{a^2 + b^2}}$$
where $ax_0 + by_0 + c$ is the line of intersection, and (x_0, y_0) is the point.

[c27] 27.The system of claim 25, wherein the computer is further configured to:
identify a second plurality of secondary images taken in planes orthogonal to the first plane;
calculate a distance from the point to a line of intersection between the primary image and each secondary image in the second plurality of images; and
associate the second label to a secondary image in the second plurality of secondary images having a line of intersection with the primary image closest to the point.

[c28] 28.The system of claim 25, wherein the computer is further configured to:
associate the first label to a second point in the primary image;
calculate a distance from the second point to a line of intersection between the
primary image and each secondary image in the plurality of images; and
associate the second label to a secondary image in the plurality of secondary
images having a line of intersection with the primary image closest to the
second point.